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## Compton Tells Group Elements For Defense

### Report To Corporation Reveals 90% Of Class Of 1940 Have Jobs

In a time of military crisis, technological efficiency in production, as well as in the design of instruments of defense and offense, is the basic element of national defense," stated President Karl T. Compton in his annual report made public Wednesday afternoon. In his report Dr. Compton outlined to the Corporation the work that the Institute and members of the staff have been doing to aid defense during the past year.

Dr. Compton revealed that more than 90% of the Class of 1940 had been placed by September 1, and that the men had found employment in thirty different states. Graduates who entered private consulting or architectural practice were not included in the list of those placed.

#### Faculty Members Given Leave

Members of the Institute staff, continued the President, "are serving in a variety of national defense agencies, some having been granted leaves of absence and others having been relieved of a portion of their Institute duties to make this possible." Dr. Robert G. Caldwell, Dean of Humanities and former United States

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## 27 Sophs Contest For Six Positions

### Ahrendt Tells Duties Of W. M. Committee At Meeting Tuesday

Twenty-seven Sophomores entered the preliminary competition for positions on the Walker Memorial Committee, Wednesday after a meeting at which the duties and functions of the committee were explained by William R. Ahrendt, '41, chairman.

During the first week of the competition, the candidates are to do the office work, with reports and letters, and perform the other general duties of the committee.

#### Ten to be Chosen

Next Wednesday, the field will be narrowed down to ten men who will do more intensive work and, after a week, will submit competitive reports, suggesting general improvements around the Institute which come under the scope of the Walker Memorial Committee.

Six men will be chosen from the ten who submit reports to serve as the Sophomore Board of the committee.

## Freshmen To Attend T.E.N. Smoker On Wed.

All freshmen and others interested in magazine work are invited to the Tech Engineering News smoker at 5:15 Wednesday, October 16, in the Faculty and Alumni Rooms of Walker Memorial.

The heads of the various departments will explain the duties of their respective departments. According to Warren J. Meyers, '41, the general manager, a training course for the freshmen will begin the next day.

Refreshments are to be served, and, in addition to the usual cider, donuts, and cigarettes, the T.E.N. will offer cokes and cigars. The T.E.N. cup, which is awarded by the T.E.N. to the best college engineering magazine of the year, will be on display.

### National Guard Blankets Lost By T. C. A. At Camp

Fifteen blankets, borrowed from the National Guard for freshman camp, wandered from the straight and narrow path on their way back to the T.C.A. office after camp broke up on Registration Day.

If any student, in his travels, should meet up with one of the wayward blankets, he should return it to the T.C.A. No embarrassing questions will be asked. If the blankets are not returned to the National Guard, the T.C.A. will have to pay for all of them at \$3.35 per.

## Debating Society To Renew Tech Open Discussion

### Year's First Debate With Harvard Squad On Willkie vs. F.D.R.

The Debating Society will meet to discuss plans for the coming season in the Faculty lounge of Walker Memorial on Tuesday, October 15th, at 5 P.M. Professor Theodore Smith, faculty adviser of the society, will speak. All freshmen and upperclassmen interested in debating are cordially invited to attend this first meeting at which refreshments will be served.

The first debate, with Harvard University, will take place on Sunday evening, October 20th, in the historic Old South Church, Boston. The topic under discussion will be, "Resolved: that Wendell Willkie should be defeated and that President Roosevelt should be elected the next President of the United States of America."

#### Tech Takes Negative

The Technology team will take the negative, with Paul Erlanson, '41, president of the society and Ward Haas, '43, Publicity Director, as representatives, both staunch Republicans.

This year, in addition to its regular activities, the society plans to revive the Tech Open Forum, and to sponsor discussion groups on vital foreign affairs. The schedule has listed a return debate with Harvard as well as several other tentative debates.

## Washing Soda, Alum, Sand And Gravel Used In Cleaning Water For Pool

Since the opening of Technology's ultra-modern swimming pool, swimming has become one of the most popular recreations at the Institute. Hundreds of students, faculty members and employees have taken advantage of the opportunity to use one of the finest pools in the country.

Few, however, are aware of what goes on behind the scene to maintain sanitary conditions. In designing the water treatment and filtration systems of the pool, every precaution was taken to safeguard the health of the swimmers.

#### Water Circulates Constantly

The water in the pool is constantly circulating through the purifying system where bacteria, hair and other foreign matter are almost completely removed. As the water is drawn from the pool it is neutralized with sodium carbonate. Incidentally the water in the pool is maintained more nearly neutral than the water we get in our bathtub. The water is then treated with alum which causes a gelatinous fluffy precipitate in the water. This precipitate carries most of the foreign matter and bacteria down with it as

## Dorms To Open For Fall Dance

### Four Hundred Girls Invited To Affair Tonight At Nine

Open House has been declared in both the Senior and Undergraduate dormitories for the Fall Acquaintance Dance, to be held tonight in Walker Memorial from 9 to 1, according to Willard S. Mott, '41, chairman of the Dormitory Committee.

The dance, which is held every fall to help students to make acquaintances for dates for the social activities during the school year, is being sponsored by the Technology Catholic Club.

#### 400 Girls Coming

Over 400 girls have already purchased tickets for the affair at the ticket booths stationed at Wellesley, Radcliffe, Simmons, Emmanuel, Regis, Boston Teachers College, Framingham, Jackson and other nearby girls schools, according to John O'Meara, '43 chairman of the Dance Committee.

All the girls are to wear identification cards telling their name and college, and further information including address and phone number will be distributed free of charge by the girls upon request.

#### Carmody to Play

Jim Carmody's ten-piece orchestra, well-known to Institute students, has been signed to play for the affair. Carmody, who has recently returned from a long term engagement at Whitehall Lodge, in upstate New York, has promised some distinct new arrangements of popular numbers for the dance.

A "conscriptionability" machine, built by George H. Hite, '41, and John R. Foley, '43, will be used for the first time at the affair to determine the "conscriptionability potential" of the Technology undergraduate.

### Student Directory List Posted Oct. 14 To 19

Preliminary lists for the Directory of Students will be posted in the following places October 14-19: Main Lobby—Building 10, Walker Memorial, Building 3, and Bulletin Board near Room 3-150.

Each student is requested to inspect a list and to report on the cards provided any errors which he finds.

### the water passes through a "flocculating" tank. Hair is removed by a screen.

#### Filtered Through Sand

The water then enters one of the sand filtering tanks and filters through a bed of fine sand and gravel. All remaining solid matter is removed in this process and the water is pumped back into the pool. But before this is done chlorine is injected into the stream to kill any remaining germs in the pool.

In order to reduce the irritant action of the chlorine ammonia is added. This causes the formation of compounds known as chloramines which are excellent germicides. The water temperature is thermostatically maintained at seventy-five degrees.

#### Bacteria Count Low

Professor Thomas R. Camp of the Civil Engineering Department, who designed the filtration system, pointed out that science and constant attention have reduced bacteria and foreign matter in the pool, but that the individual swimmer can accomplish greater results by conscientiously ob-

(Continued on Page 4)

## Sell Britain Anything, But No War In Europe, Is Student Opinion

### Students May Register In City Of Cambridge

By the authority of the Cambridge Election Commission, Technology students who cannot conveniently appear in their home precincts may register on Wednesday, October 16, at the Massachusetts Institute of Technology. Facilities for registering will be available from 7:00 A.M. until 9:00 P.M. on that day in Room 7-142. Everyone who can register in his own precinct should do so.

## Frosh Turnout For Field Day Hit By Oscar

### Prove Disappointment After Dunking Sophs In Lake Massapoag

Oscar Hedlund, track coach, chided the frosh for their poor turnout for Field Day sports "after such a good showing against the Sophomores at freshman camp", at the first rally of the Class of '44, held Wednesday in Huntington Hall.

"If the class of '44 pull together they have a fighting chance of winning Field Day, in spite of the fact that it has been won only five times by the first year class in the past thirty-nine years," he said.

#### Greenes Urges Turnout

Ernest F. Artz, '42, chairman, then introduced Bernard A. Greenes, '42, the freshman tug 'o war coach. Bernard declared that only fifteen '44 men had previously shown up. As he wanted to win the three points for field day all loyal freshmen with plenty of avoidropus and spirit were asked to present themselves at Briggs Field Thursday, October 10, at 5:00 P.M.

Jack Wood, Sailing Coach, the next speaker, said that the Sophs weren't quite up to par in the dinghys this year and if the frosh tried hard there was hope. The freshmen sailors didn't attend the rally since they took advantage of the first good sailing weather since school began.

Artz concluded the meeting by announcing that the next freshman rally was to be held Oct. 25 and by that time everything should be well underway.

## Place, Time, Date Set For Soph Ball

The place is the Imperial Ballroom of the Hotel Statler, the date is November 22, the time is 9 to 2. This much was decided at the meeting of the Sophomore Dance Committee held last Tuesday afternoon in Litchfield Lounge of Walker Memorial.

The choice of the orchestra will be announced when a contract has been signed, Robert S. Reebie, '43, class president and chairman of the committee announced. The committee is now engaged in negotiations preliminary to the signing of a band.

#### Limited to 400 Couples

Ticket sales, the committee decided, will be limited to 400 couples. Possibilities for favors to be given to guests were discussed at the meeting, but no definite decision was reached.

### 68.7% Do Not Want War Unless Americas Are Attacked; But 52.1% Expect Conflict

Technology students approve of full economic aid to England, but at the same time a majority of those polled by The Tech last Wednesday believe that the United States should not go to war unless the Americas are attacked.

45.3% of those who answered The Tech's questionnaire approve of selling everything Great Britain needs, but for cash only. Another 25.8% would also sell on credit making the total of those who would sell anything 71.1%. 5.7% would not sell England anything and 8.2% would not sell war materials. At the other extreme, 6.2% believe that we should send our navy and air force over to join the British, and 8.8% feel that we ought to get into the war right now.

#### Many Expect War Soon

52.1% of the students think that Uncle Sam will dig up the hatchet within a year if the European war lasts that long. A nearly equal number, 47.9%, feel that we shall remain at peace.

A considerable majority, 68.7%, believe that the United States should not go to war under any circumstances short of a military attack on the

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## Play Presented By Dramashop

### Fall, Spring Plans Discussed At Smoker Held For Freshmen

The freshman class got its first opportunity to become acquainted with the Dramashop at the Dramashop Smoker last Wednesday evening in Room 2-190. Several members of the organization presented "The Boor", a one-act play by Anton Checkov.

Joseph E. Dietzen, '41, the president, Janet Norris, '42, and Stanley M. Smolensky, '41 made up the cast of the play. Dean M. Fuller, Professor of English and coach of the Dramashop, spoke. Following this the plans for the coming year were discussed and refreshments were served.

#### Series of Plays Planned

The organization plans to produce a series of one-act plays on two evenings this fall in Room 2-190. Production Manager for the first set on Saturday, October 26, is Robert L. Mitchell, Jr., '43. Directors of the individual presentations will be George E. Power, '41, Burton S. Eddy, '42, and Robert Lichten, '43. A larger production than has ordinarily been given is planned for the spring season.

## Radio Society Discusses Equipment Of W1MX

The M. I. T. Radio Society welcomed its new members at its first meeting of the year last Tuesday evening. Frank E. Vinal, G, the president, opened the meeting and introduced the various officers to the new men.

Jack L. Schultz, '42, Vice-President of the society, then spoke on the equipment of station W1MX and its use. Plans were made for the coming year, and classes for learning the code were organized.

# The Tech

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**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**

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## AFTER THE POLL IS OVER

The Tech student wants to fight only if the interests of the United States are directly impaired. These interests, he believes lie in the Americas, and the Philippines. For such reasons, and only such reasons is he willing to bear arms now. He indicated these ideas in The Tech's poll Wednesday.

At the same time the Technology man leans more than half-way to England. He wants to aid them, but he doesn't want to fight what he believes is their battle.

We wonder if down deep in his calculed heart he doesn't feel that England is now fighting at least part of our battle for us, because a slight majority do think that Uncle Sam will be with John Bull within a year—if Johnny lasts that long.

Wittingly or not, the student is an imperialist at heart. He wants to preserve the status quo (now in favor of the U. S.) in the Americas and in the Philippines. At the same time the economic - aid - to - Britain opinion may be taken as a secondary defense of this country's favorable position.

It is happy to note that less than a third of those voting have that I-don't-think-we-should-get-into-it, — but-we-will opinion. The numbness of student thought is seemingly gone—and with it the fatalistic expectation of our inevitable involvement in the European conflict.

## THE REOPENED ROAD

More than a tired statesman in ill health exited from the British government scene when Neville Chamberlain recently resigned his minor post in the British Cabinet. With him went the famous appeasement policy. A "peace at any price" attitude is scarcely compatible with daily bombing raids which never let the British forget the horrible war in which they have got themselves involved. Mr. Churchill's government has completely discarded the idea that negotiations with aggressive nations can achieve a lasting settlement.

Proof that Britain no longer cares to rationalize is shown in the reopening of the Burma Road, the British reply to the Axis-

Japanese alliance. This act, a tremendous decision, indicates that an English effort will not be made to appease Japan in order to reduce the danger to the British Empire, as Mr. Chamberlain made an effort to appease Germany in order to keep the peace of Europe.

This new policy is possibly the wisest. Japan, her costly China campaign becoming more of a burden than a conquest with each prolonged day, sees her golden chance to hitch a dominating drive to her government's surging nationalism. Today she couldn't be dissuaded by any appeasement program whatsoever.

Cognizance of the Japanese spirit was apparent in the Churchill speech in the House of Commons Tuesday. The words which announced the decision to reopen the Burma Road signified clearly that British interest requires a policy which will keep Japan stalemated in China, that Japanese troops are not marching through British possessions in the Far East only because of Nationalist China's stubborn defense.

How is the United States affected, if at all, by these new events? Our immediate position is unchanged, but accentuated. Although the attendant risk is heightened, the steps we have taken in the East ought not to be revoked. The recent embargo on supplies to Japan and the limited extension of credit to China must be kept up, since it is essential to our interest, as well as to the British, to keep Japan tied up in China.

This aggressive policy, of course, slices our security in the East. The Philippines are still highly vulnerable to possible Japanese retaliation, and the position of Americans in China becomes more perilous. The State Department's warning of the latter fact was opportune.

Apart from these conditions, however, no major risk is involved. Direct contact with Japan cannot occur by standing fast, except, of course, in the highly unlikely event that Japanese armies should come 7,000 miles and land on our western coast, in which case we would not need to decide if the acts already taken should be given up, but only if they could be intensified.

One outcome of the reopening of the Road may be the merging of the war in Europe with that in the Far East. On this possibility, however, we can only speculate. Just how far Japan will go in support of the Axis, despite her recent alliance, is problematical. Unknown Russia, at present wooing every major power at once, must certainly be considered in any appraisal of developments in Asia.

Since it meant a reversal of a previous decision, the British must have carefully weighed all risks involved in the reopening of the Road. And the best stand for the United States to take seems at this writing to be a determined enforcement of our present position.

## IN PASSING

We hear that nearly every officer of the Technology Peace Federation will soon resign. Each man is evidently doing so with some good reason. Some are acting thus because they no longer believe in peace, others, because they think the cause of peace might be better aided were they not leading the Federation.

But the imminent collapse of this society is unfortunate insofar as it is in times such as these that it is most needed. And its necessity lies in the important, though perhaps purely academic, problem of hearing all sides to a story.

If the Federation falls, we, at the Institute will have little chance of examining all evidence.

Now is the time for a new group of officers with strong policies to arise—whether the policies be peace-at-any-price or not is beside the point.

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## Tech Booters Open Season Against Brown

Captain Herzog Leads Beavers In Quest For First '40 Win

Varsity soccer will be the first of all the Institute athletic teams to meet an outside foe when Captain Fred Herzog's Beavers trek down to Providence to meet Brown University Saturday noon. The Cardinal and Grey will be set to avenge a mid-season shut-out of last fall and to start a full schedule off on the right foot.

Don Goldie, son of last year's varsity coach, is now mentoring the almost completely veteran squad. His father, one of the outstanding soccer coaches in the East, was injured in a shipyard accident and handed the reins over to Don.

### Beavers Stress Attack

Because of the impotent attack of the team which scored but 8 goals in 9 games last season, Coach Goldie has worked incessantly on offense since the opening practise on registration day. The results have been obvious in sessions to date. The front line is strong, fast and smart. It is composed of veterans with plenty of experience and with plenty of urge to bring back the first victory in two years to Tech.

Fennem, Foster and Tan spearhead the front line. The first two are transfer students, both ineligible last year. They have flashed in practise sessions and may prove valuable additions. Tan is not listed as a starter but has shown so much that, as a climax sub, he may steal the show.

### Veteran Forward Line

Backing this trio are Samuels at the Center halfback slot, Ewing at Inside right and Josefowitz at Inside left. Between them, these veterans tallied half of last year's goals. Loven, Fonseca and Fernandez are all experienced booters and varsity lettermen. Heydt, at Right halfback, is up from last year's frosh club and Johnson, at Right fullback is the lone rookie on the club.

### Herzog Star Goalie

The defense needs no introduction. Captain Fred Herzog is one of the finest goalies in soccer today. Out with a broken wrist most of last fall—Herzog was sadly missed by the team. Even without his services, all but two of the games were closely fought and lost only in the last minutes of play or in overtime. With Herzog in perfect condition, the Beavers can open up and stay on the attack throughout the game.

Win or lose, the Varsity squad and Manager O'Connor have been invited by the Brown University Athletic authorities to sit on the fifty-yard line and see Colgate's Red Raiders try to puncture Brown's undefeated football team.

## Tech Dinghymen To Race Saturday

Technology's sailors will take part in their first event of the new fall season, when they race several other Boston colleges in a meet on Saturday morning on the Charles. Invitations to take part have been sent to Harvard, B.U., B.C., Tufts and Northeastern.

Another important event for the nautical-minded over the week-end will be the beginning of the fall series to be run Saturday and Sunday afternoons.

### No Eliminations This Year

This year an important deviation in the running of the series has been inaugurated. In the past it has been the custom to run an elimination series lasting through the first three weeks of term, to determine who would be qualified to sail in the first division of the tournament. This year, however, there will be no eliminations at all, as it is felt by the Nautical Association committee that it will be of greater benefit to the team to allow them to take part in as many formal races as possible early in the year.

Instead of the usual elimination series being the criterion for entry into the first division, this year the men will be placed according to their past record in dinghy sailing.

### Dormitories Will Conduct Own Football Tourney

The possibility of an independent football tournament for the Dormitories was discussed Tuesday afternoon at a meeting of the Beaver Key Society.

As the matter stands at present, the Dormitories will run their own tournament, and it is possible that there will be a play-off between the winners of the fraternity division and the dorm division at the end of the season. This does not represent a definite decision, but it seems the most practical solution of the problem. It is hoped to settle the problem over the week end and announce the final details early next week.

## Demonstrations To Be Feature Of Squash Rally

### Inexperience To Be No Handicap For Frosh Candidates

The freshman squash rally, which will take place on the Squash courts Monday, October 14th. at 5:15 p.m., will be highlighted by demonstration and explanation of the sport.

The demonstration will be given by Coach Jack Summers, four-time national champion, and varsity captain Phil Freeman. Other members of the varsity will be present to explain the game to the freshmen attending.

### No Experience Needed

Of interest to freshmen will be the fact that very few of the men out for squash had experience in the sport previous to coming to Tech. This means that positions are open to all freshmen who come out, or substitute the sport for P.T. The schedule includes, among other contests, 8 matches in the Massachusetts Squash Racquets Association League.

This year for the first time, a frosh intramural tournament will be organized. Every freshman out will be made a member of one of the fifteen teams to be formed. Every week each team will play two matches, and points will be scored and added up to determine the winner at the end of the season. The advantages of this new system are two fold: first it enables every man to play every other man out for the sport; and second, it will enable freshmen to get individualized instruction from the coach.

## Rivers Announces Mat Tournament

### Olympic Rules To Be In Effect Throughout Entire Competition

Though Europe's conflict called off the world Olympics this year, Technology will do its part to keep this tradition going by holding the M.I.T. Olympic Wrestling Championships under the direction of wrestling coach Joe Rivers. The championships will begin November 12 and continue through November 22.

Every student at the Institute is eligible to compete in this tournament except present varsity lettermen and winners of first place medals in the tournament of last spring. This ruling excludes 175 lb. varsity Captain Johnny Carleton, and sophomores Cy Kano, Barrie Mackenzie, Bill Sullivan, Bernie (Red the Terrible) Brindis, Hugh Byfield, and Bill Moore who gained first places in last year's tournament.

### To Use Olympic Rules

The rules of this Championships are to be those laid down by the Olympic Committee. Five bad points eliminates an entrant from further participation. These bad points are awarded as follows: 0—win by fall, 1—win by decision, and 3—lose by decision or fall. Under this system every entrant is assured of wrestling at least two bouts. Coach Rivers expects this system to provide a great deal more match experience for all entrants than would be gained under standard rules.

In spite of the season being practically in its infancy, the wrestling mentor expects to use the regulation ten minute bouts.

## Technology's Gridders Open Season Oct. 19

### More Reserves Needed To Back Up Strong First String Eleven, Sgt. Hunt Reports

With Junior-Senior football's debut at Technology only eight days off, Sergeant George C. Hunt, head coach at the Institute, said last night, "I would like to see more men out. The first team looks good but capable reserves are needed." At present the first eleven is a well balanced unit with no one man standing out above the rest.

Sergeant Hunt is teaching the team straight football, with no particularly razzle-dazzle mixed in. The team is getting in plenty of contact work in preparation for the game with Hyannis teachers on Oct. 19. The Sophomores provided the opposition on Wednesday, and were held well in check by a strong defensive upper class aggregation. The first team did no offensive work against the Sophs. Yesterday the Frosh went through their repertoire with the same result.

### Line Averages 180

The line averages 180 pounds and is capable both offensively and defensively. Sergeant Hunt uses an unbalanced line at all times and a six man forward wall on the defense. Earl Foote is doing a good job at center, his specialty being backing up the line.

Men are still fighting for starting berths in the line but Mike Hooke and Ten-Ton Van Greenby, a 230 pounder, seem assured of the tackle posts. Sibley and Bauman are the stand outs at end right now, but there are a few other pass snatchers who may break into the line-up.

### Hooper, Arnold Backs

Bill Hooper is the all round back who will probably do the passing. Arnold is consistently punting over 50 yards, which is par in any league. Bob Faubacher is a good blocker and shows prowess as a broken field runner.

All the backs are equally speedy so it is hard to say who will carry the pigskin on end runs. Before the season opens there will probably be many changes in the line up because the coach has not had time to look over everyone thoroughly at this early date.

### Class Difficulties

The blocking and tackling is excellent and the team is in good physical condition. Sergeant Hunt is having difficulty getting the whole team together at the same time on account of late classes. Everything considered the prospects look good for a successful season.

## Soph Gridders To Play Dummer

The grey-clad Sophomore football team will journey to Governor Dummer Academy tomorrow afternoon to open their 1940 season on the Academy gridiron. Thirty-three members of the squad will make the trip.

Coach Johnny Sexton has been whipping his charges into shape this past week with extensive signal drills and light scrimmages. "They looked pretty weak in their scrimmage against the Junior-Senior team a couple of days ago, but I look for a better showing Saturday," the coach hopefully added.

The tentative starting line-up for tomorrow's contest is: RE Marakas, RT Fleming, RG Bonham, C Horner, LG Fenton, Lt. Sudowsky, LE Dunnington, RH Coles, LH Leader, QB Hathaway, and FB Shamban. Other members of the squad likely to see a good deal of action are Mattes, Saer, Hosley, Eisenburg, and Hill in the line, and Henning, Poole, Graves, and Brodie in the backfield.

Shamban, 5'2" pile-driving fullback, who reported for practice this year weighing 192-lbs. is surprisingly fast and much is expected from the stocky plunger. Charley Coles and Ralph Leader are both elusive open field runners and need only a slit in the line to get away.

### Punting Ace



John Arnold, '42, who will carry the burden of Jr.-Sr. kicking this fall.

## Coaches Shedding Sad Tears Over Field Day Turnout

### More Men Needed To Insure Typical Tech Athletic Day

With two weeks of the term gone, already the turnout for all field day teams is still far below what is desired, and all the coaches are fretting about the size of their squads. Some teams have just enough men out to make up a team, others not even that many.

Particularly poor have been the turnouts for tug-of-war, in both classes. Bob Greenes, the frosh mentor, claimed that the team cannot win with the present number out. More men are badly needed. There are twenty-four men signed up for the sport, but the largest turnout to date has been one of fifteen men. Average weight of freshmen out is 150 lbs.

### Adelson Needs More Men

Cap Adelson, the Sophomore coach, is also disappointed in the turnouts to date. Signups were held on Tuesday and the first practice Wednesday. Only ten men turned out Wednesday, but this number was doubled yesterday when twenty men reported for a strenuous practice. Coach Adelson is working hard to get more men out, especially callers. I. Lentzer, one of the callers out, was cox of the interscholastic championship crew in his senior year in High school. The average weight of those out for the Sophomore team is 165 lbs.

### Football Practice Strenuous

Football coaches of both classes have been reticent to date, but both claim that they are going to win. Both teams have a fair number of men out for them at present, and are showing definite improvement as time draws on. Practice of many specialized plays have already been started, but great importance is being placed on conditioning exercises, blocking and tackling practice. The Sophomores have many of their veterans out as well as some new men. Notable among those who were not on last year's frosh squad is Charlie Hathaway, one-time All New Jersey Scholastic team member.

The outlook for the dinghy race is wide open, though here again both mentors claim superiority. Many men are out for both squads,

## Harriers Begin Year Tomorrow Against Conn. U.

### Cochran, McGregor Surprise Team With Strong Showing

Tech's cross country squad opens its 1940 season tomorrow afternoon against a strong Connecticut University team on the Franklin Park course.

With a two week training camp prior to the beginning of the fall term, and with daily afternoon practice ever since the Beaver harriers are well prepared for their initial test. The surprisingly strong showing of Mac McGregor and Bill Cochran has counterbalanced the loss of Captain Stan Backer. Cochran, last year's freshman captain, has been outstripping his more experienced teammates in training sessions.

### Opponent Shows Strength

Connecticut University, which was runner-up last year in the New England Intercollegiate Championships, has a strong team this year, also; as shown by their victory last Saturday over Northeastern at Storrs by a 23-22 score.

Entries for Tech in the contest will include Les Gott, Malcolm McGregor, Larry Turnock, Bill Cochran, Art Gow, Les Corsa, Dan Schaeffer, Bob Miller, Ted Gale, and Bob Simon.

### Varsity Schedule

The varsity schedule for the year is made up of the following six meets.

October 12 — Conn. University at Franklin Park.

October 19 — Mass. State at Amherst.

October 26 — Yale at New Haven.

November 2 — Dartmouth at Hanover, N. H.

November 11 — New England Champ. at Franklin Park.

November 18 — I.C.A.A.A. at New York.

## Freshman Crews Go Out On River

Freshman crews will join the varsity shells on the river for the first time Saturday. The varsity finishes their first week of early morning practice on Saturday morning. Coach Bob Moch's men have settled down to intensive work, and, as a result their form and speed is steadily improving.

Captain and stroke Joe Gavin has been forced out of rowing for a few days because of an injured hand. In his place Bill Folberth, last year's captain, has taken over the stroke position and Hans Walz of last year's freshman boat has moved into the first boat.

### Boatings

Yesterday's boatings included the following:

FIRST BOAT: 8 — Folberth 7 — Guething, 6 — Mueller, 5 — Bowen, 4 — Howard, 3 — Poskus, 2 — Walz, 1 — Phaneut, Cox — Nieder.

SECOND BOAT: 8 — Richardson, 7 — Malloch, 6 — Vyverberg, 5 — Affel, 4 — McGuire, 3 — Spitz, 2 — Reswick, 1 — Vetter, Cox — Mulvaney.

THIRD BOAT: 8 — Maples, 7 — McKenney, 6 — Leader, 5 — Lorentzen, 4 — Heller, 3 — French, 2 — Hettich, 1 — Cain, Cox — Wengenroth.

### McMillan Seeks Coxes

The three varsity shells are relatively even at the present time and the coach is changing the boatings frequently. The three named coxswains together with Blake, Clausen, Karasick, and Fox are being rotated among the varsity heavy and 150 lb. shells.

Jim McMillan, freshman coach, is still looking for frosh coxswains. Any freshman weighing 130 lb. or less is urged to see McMillan as soon as possible.

### The First Church of Christ, Scientist

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Sunday Services 10:45 a. m. and 7:30 p. m.; Sunday School 10:45 a. m.; Wednesday evening meetings at 7:30, which include testimonies of Christian Science healing. Reading Room — Free to the Public, 333 Washington St., opp. Milk St., entrance also at 24 Province St., 2nd Floor, Berkely Building, 2nd Floor, 60 Norway St., cor. Mass. Ave. Authorized and approved literature on Christian Science may be read, borrowed or purchased.

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## CALENDAR

FRIDAY, OCTOBER 11

- 5:00 P.M. Hobby Shop Smoker—Pritchett Hall.  
5:00 P.M. VooDoo Smoker—Faculty Lounge.  
9:00 P.M. Tech Catholic Club Dance—Morss Hall.

SATURDAY, OCTOBER 12

- 12:00 Noon Soccer Game with Brown—Providence.  
1:00 P.M. Fall Sailing Series—Charles Basin.  
2:00 P.M. Sophomore Football Game with Governor Dummer Academy—Away.  
3:00 P.M. Cross Country Meet Against Connecticut University—Franklin Park.

SUNDAY, OCTOBER 13

- 1:00 P.M. Fall Sailing Series—Charles Basin.

MONDAY, OCTOBER 14

- 4:00 P.M. Tech International Club Smoker—Pritchett Hall.  
6:15 P.M. Superintendent's Round Table Dinner—Silver Room.  
6:30 P.M. Phi Mu Delta Alumni Dinner—Faculty Lounge.  
6:30 P.M. A.I.E.E. Student Branch—Pritchett Hall.

## War Poll

(Continued from Page 1)

Americas. 31.3% do not agree with such a policy.

## Pessimism Expressed

31.8% of those polled believe that the United States should stay out of the war unless the Americas are attacked but at the same time think that we shall get in within a year anyway. Another 39.3% feel that we shall stay out unless the Americas are attacked.

Students consider the Philippines more worth fighting for than the Dutch East Indies. 63.3% would send the U. S. Navy across the Pacific if the Japanese should try some funny business in the Philippines, but only 37.4% would want to go on the war path to prevent them from taking the Dutch East Indies.

A very small group, 3.3%, would fight for the Dutch East Indies, but are willing to let the Japanese take the Philippines. 34.4% would fight for neither of them, 31.7% for either of them, and 30.6% for the Philippines but not for the Dutch Indies.

It was not possible of course, to poll a majority of the student body. The demand for questionnaires was so great that all were used up by 2 P.M. It is reasonable to assume, however, that the above figures represent approximately the views of the whole student body.

## T.C.A. Offices To Stay Open Until 6:00 P.M.

Beginning Monday, October 14, the T.C.A. offices will remain open for an additional hour, with undergraduate members remaining in charge of all departments, it was announced last night by Wallace M. Ross, General Secretary.

This plan was adopted after an experiment which began last spring when the offices were open until six every evening. Since it proved very successful, the cabinet voted to adopt it, at their meeting held on Wednesday.

## Extra Hour for Freshmen

Freshmen who come out for the T.C.A. will spend one hour each week after five o'clock working in the office, they were told at the smoker sponsored by the T.C.A. yesterday afternoon.

The office will be closed all day tomorrow, Columbus Day, so anyone wishing to buy tickets to the Harvard-Michigan game must do so before 5 o'clock today.

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## Report

(Continued from Page 1)

minister to Portugal and Bolivia, has taken, at the request of President Roosevelt, the post of Chairman of the Division of Cultural Relations among the American Republics.

Professor Jerome C. Hunsaker, head of the Departments of Mechanical and Aeronautical Engineering, and best known as designer of the DC-3, is serving as a member of the National Advisory Committee for Aeronautics, and aiding in its research program. In connection with a special research project for the Navy Department, Professors Ralph D. Bennett, Francis Bitter, and Doyle C. Northrup have been granted leaves of absence. Professors C. M. Van Atta and R. D. Campbell have resigned from the Physics staff.

## Bush Heads Committee

Dr. Vannevar Bush, formerly vice-president and Dean of Engineering at M.I.T., and at present Chairman of the Carnegie Foundation, has been appointed head of the National Defense Research Committee. Those in charge of its four divisions are Dr. Frank B. Jewett and Dr. Richard C. Tolman, both M.I.T. '03, President James B. Conant of Harvard, and Dr. Compton. Members of the faculty and the Corporation have places on the section committees of the board.

In addition to work in research by the faculty, for which less urgent projects have been deferred, a number of special courses have been given at the Institute in various fields. "One of these," said Dr. Compton, "was an intensive course for junior aeronautical engineers. The success of the program has led to requests by aircraft companies that the course be repeated and that similar training be offered in other fields." Courses have been given in meteorology for officers in the armed forces, and a reorganized course is being offered for graduate naval engineers in naval construction and engineering.

## Three Million Expenditures

In regards to the finances of the Institute, Dr. Compton said that the Institute had closed the fiscal year with a modest surplus. Of the total expenditures of \$3,333,000, about 69.3% was for academic expenses, 26.4% for plant and administration, and 4.3% for miscellaneous expenses. Financial aid to students last year in various forms totaled \$434,966.

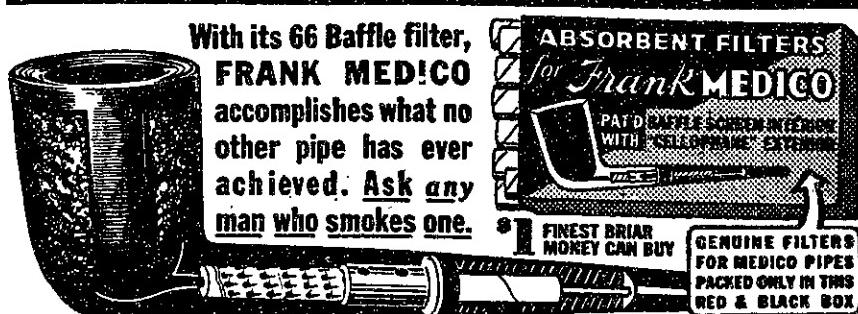
"Among the urgent needs of the Institute," Dr. Compton told the Corporation, "is a new building for the department of Chemical Engineering. This department is at the present time the largest in the Institute, and the office, classroom, and laboratory facilities are greatly overcrowded." He also drew attention to the need of increased facilities for biological engineering, and pointed to the dormitory waiting list as evidence of the need of an additional housing unit.

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